

T 28 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference EMBR-016 International application No. PCT/BR 03/00090				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
				International filing dat 08.07.2003	Priority date (day/month/year) 10.07.2002			
Intern F04E			ent Classification (IPC) or bo	oth national classification	n and IPC			
Applic EMP		SA B	RASIL. DE COMPRES	SORES S/A EMBF	RACO et	al.		
1.	This Auth	inter ority	national preliminary exan and is transmitted to the	nination report has be applicant according to	een prepa o Article 3	red by this I	nternational Preliminary Examining	
2.	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
1	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	This	repoi	t contains indications rela	ating to the following	items:			
I	l	\boxtimes	Basis of the opinion					
l	11		Priority					
ł	111		Non-establishment of o	pinion with regard to	novelty, ir	ventive ste	o and industrial applicability	
ļ	V		Lack of unity of invention	n				
\	V	\boxtimes	Reasoned statement ur citations and explanatio	ider Rule 66.2(a)(ii) w ns supporting such s	rith regard tatement	i to novelty,	inventive step or industrial applicability;	
			Certain documents cited	i				
	VII Certain defects in the international application							
\	VIII		Certain observations on	the international app	lication			
Date of	subm	nissio	n of the demand		Date of	completion o	this report	
05.02.	05.02.2004			10.03.2004				
Name a	Name and mailing address of the international preliminary examining authority:				Authoriz	Authorized Officer		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				i epmu d	Gnüch	tel, F	Carlot Barrers And Carlot Barrer	
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International application No.

PCT/BR 03/00090

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Description, Pages

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	1-8	3	as originally filed			
	Cla	nims, Numbers				
	1-1	2	as originally filed			
	Dra	awings, Sheets				
	1/4-	-4/4	as originally filed			
 With regard to the language, all the elements marked above were available or furnished to this Autilanguage in which the international application was filed, unless otherwise indicated under this item. 						
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:			
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
		the language of a translation the Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under .3).			
3.	Witl inte	h regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
☐ contained in the international application in written form.						
\Box filed together with the international application in computer readable form.						
		ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.			
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.			
	□.	The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

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International application No.

PCT/BR 03/00090

5. ⊔	The report has been ediablished do it (bothle of) the difficultients had not been made. Since may have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any conference of the state of

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims No:

1-12

Inventive step (IS)

Yes: Claims

1-12

Claims No:

Claims

Industrial applicability (IA)

Yes: Claims

1-12

No: Claims

2. Citations and explanations

see separate sheet

Cited Documents

The following documents indicated in the search report are referred to in this international preliminary examination report:

D1 EP 0 909 895 A (Matsushita Refrigeration Company)

D2 US 2001/0043870 A (Song, G.Y.)

Re Item V

Reasoned statement under Article 35(2) PCT with regard to novelty, inventive step or industrial applicability

- Documents D1 and D2 each disclose a prior art variant of a linear compressor having a resonant arrangement capable of reducing vibration, such as defined in the precharacterizing portion of claim 1. Document D1 discloses an arrangement comprising a flat spring plate, and document D2 discloses a similar arrangement making use of a helical spring.
 - Said documents appear to be representative for prior art resonant arrangement designs. None of the documents cited in the search report discloses directly a resonant arrangement for a linear compressor, wherein spring means having an elongated tubular body is being comprised.
- The claimed alternative spring means provides for an additional technical effect, in V.2 that the elongated tubular body may be hermetically affixed to the cylinder and to the actuating means of the compressor, so as to block fluid communication between the compression chamber and the exterior of the cylinder. None of the documents cited in the search report, alone or in combination, seems to render obvious the use of an elongated tubular spring in order to solve the technical problem of blocking fluid communication between the compression chamber and the exterior of the cylinder.
- Hence, subject-matter defined by independent claim 1 appears to fulfill the require-V.3 ments of the PCT with regard to novelty and inventive step.